

● FIG. 1a

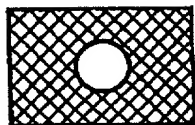


FIG. 1b

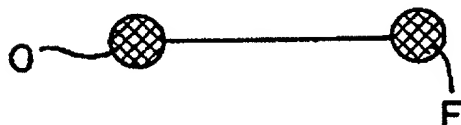


FIG. 1c

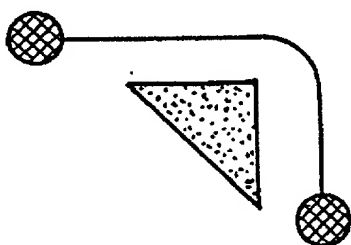


FIG. 1d

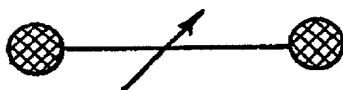


FIG. 1e

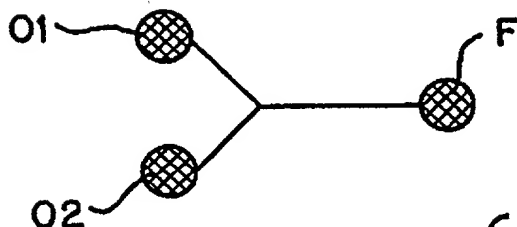


FIG. 1f

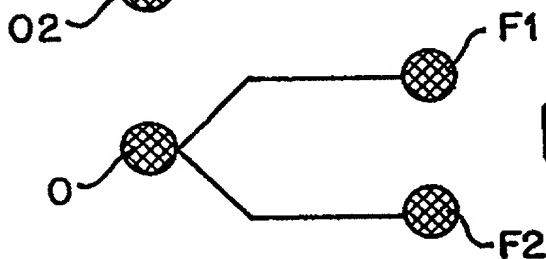


FIG. 1g

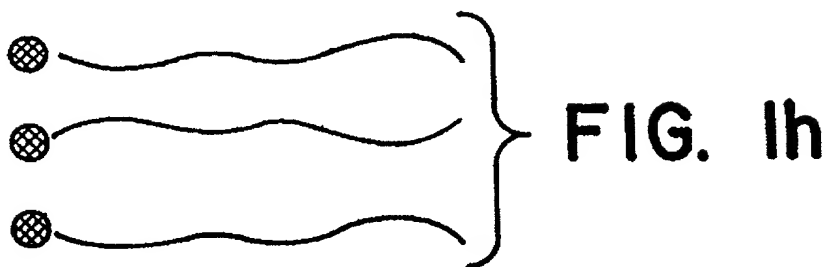


FIG. 1h

FIG. 2A

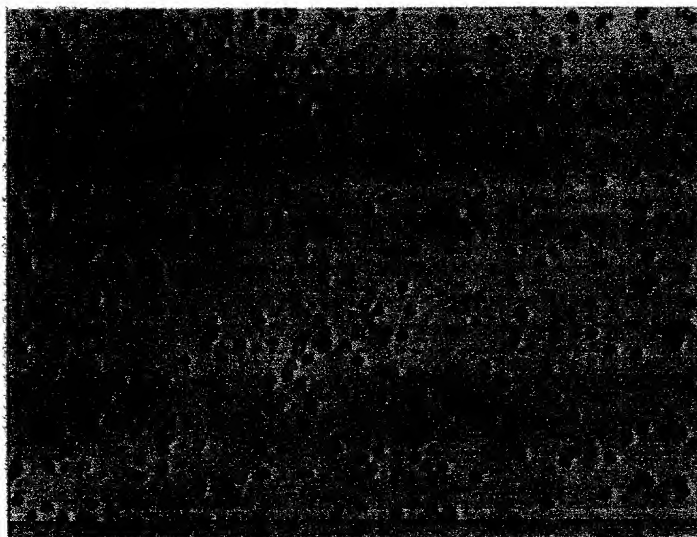
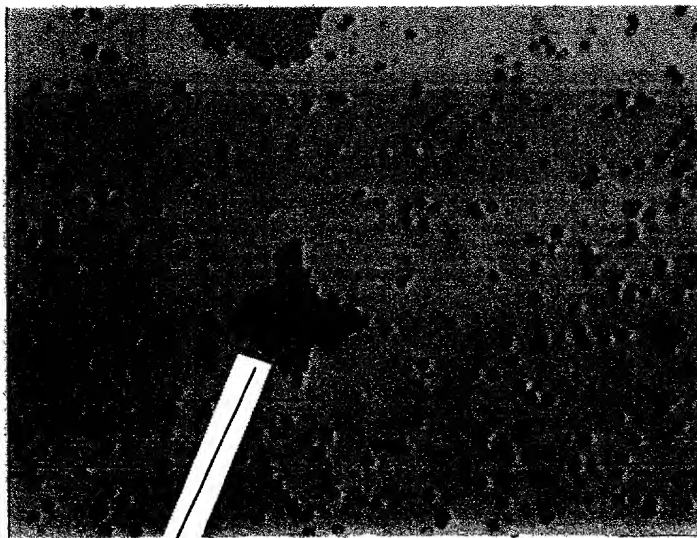


FIG. 2B



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FIG. 2C

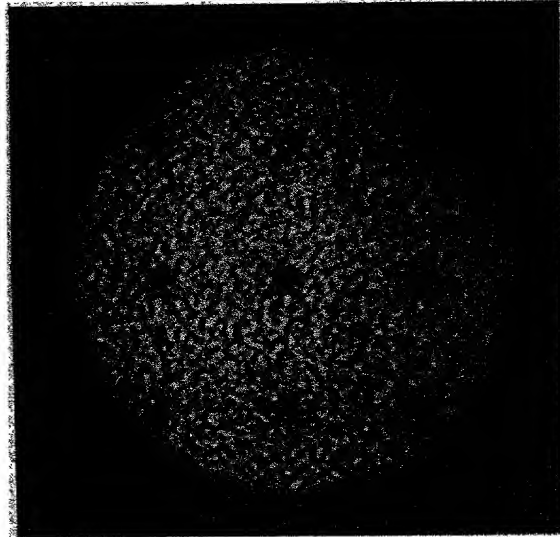


FIG. 2D

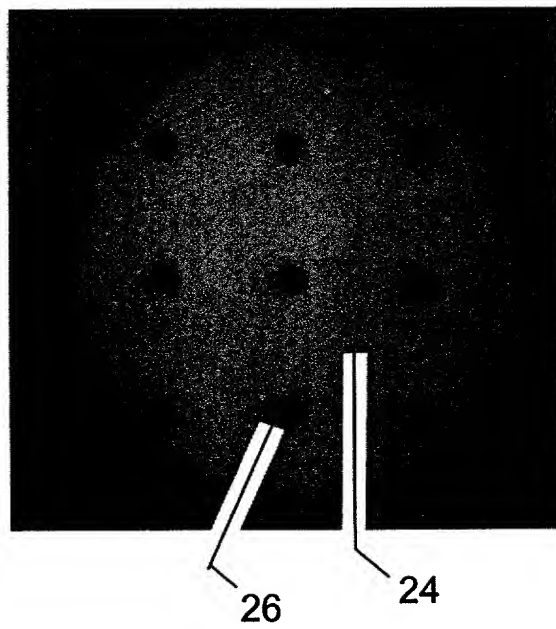


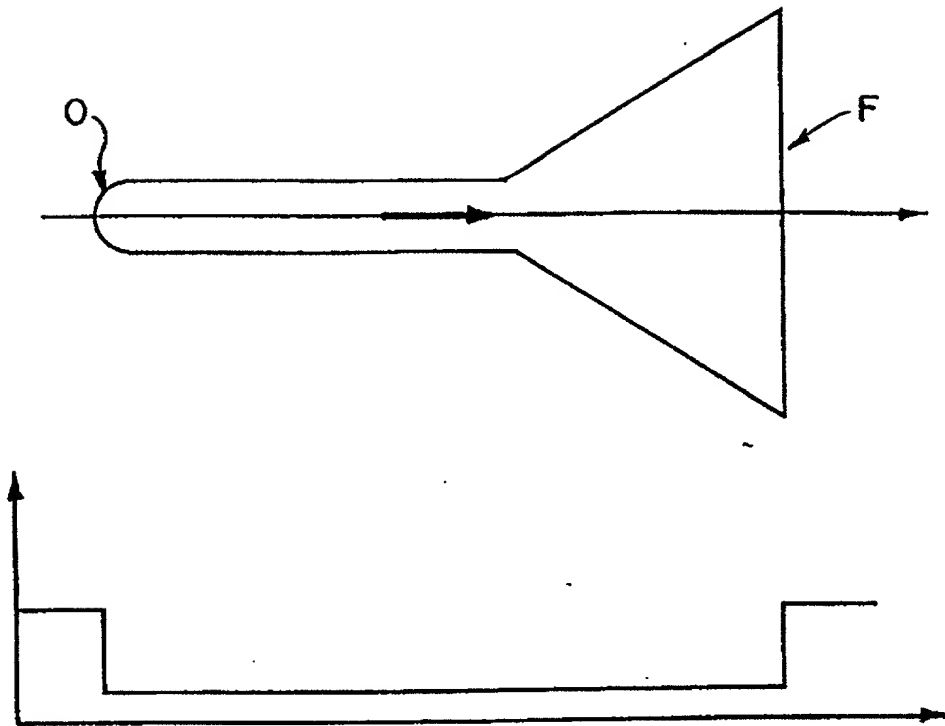
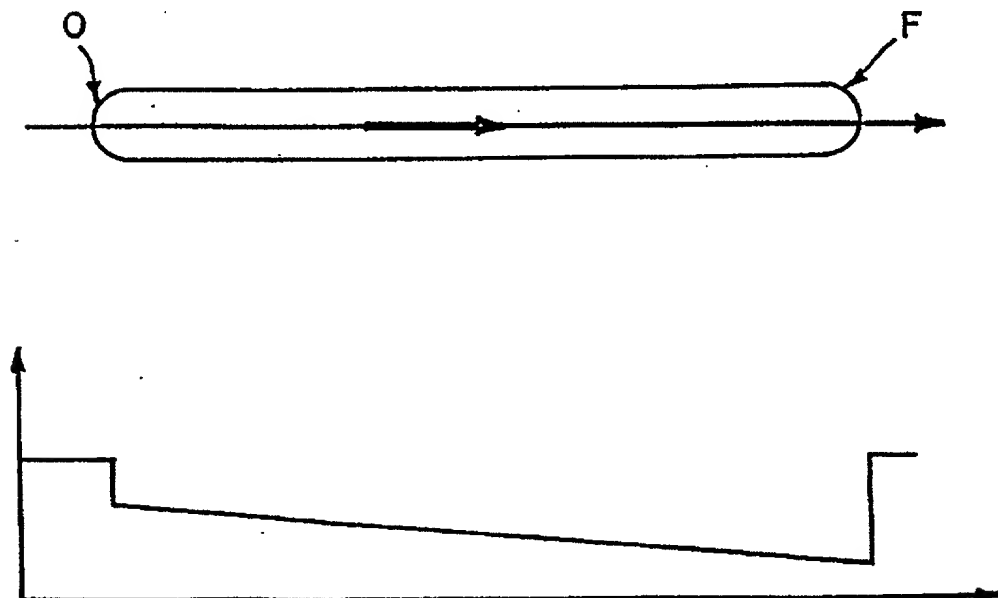
FIG. 3a**FIG. 3b**

FIG. 3C

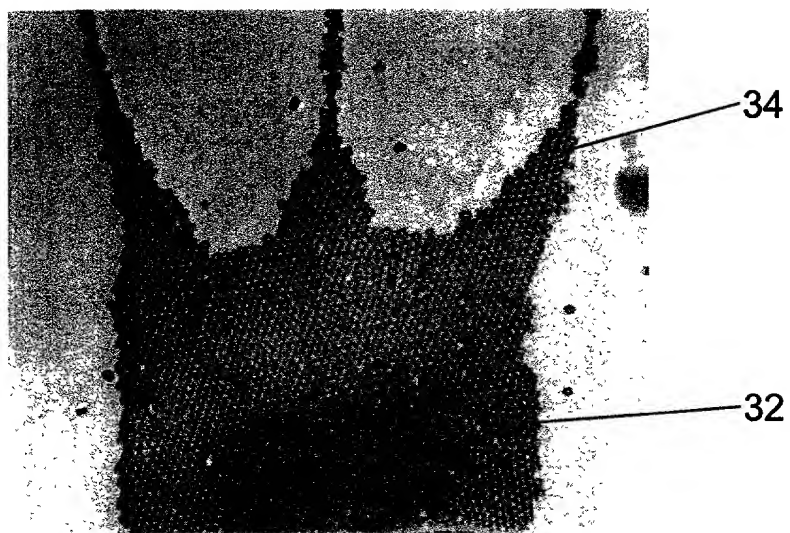


FIG. 3D



FIG. 4A

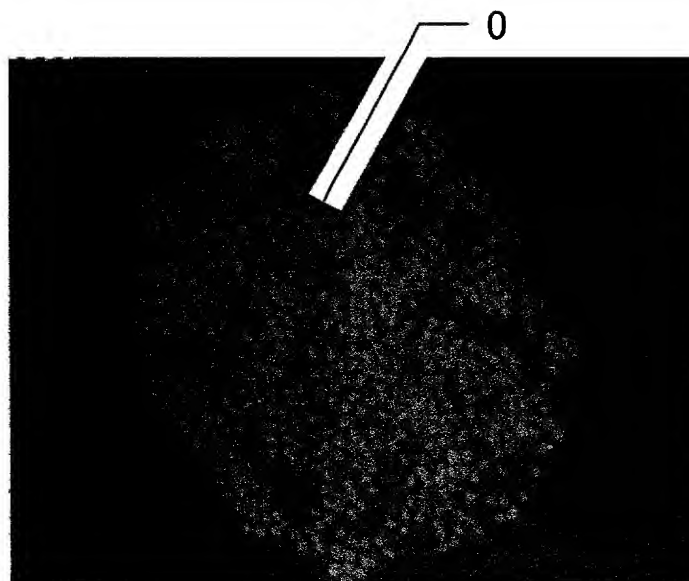


FIG. 4B

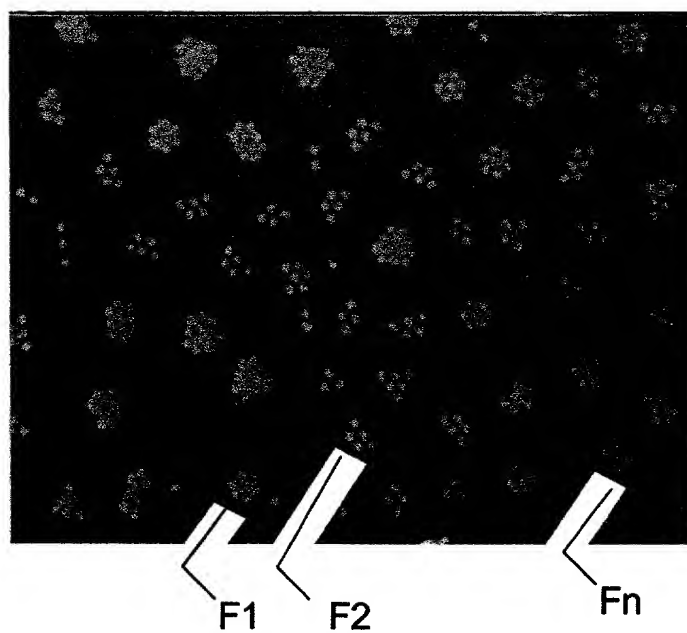


FIG. 5

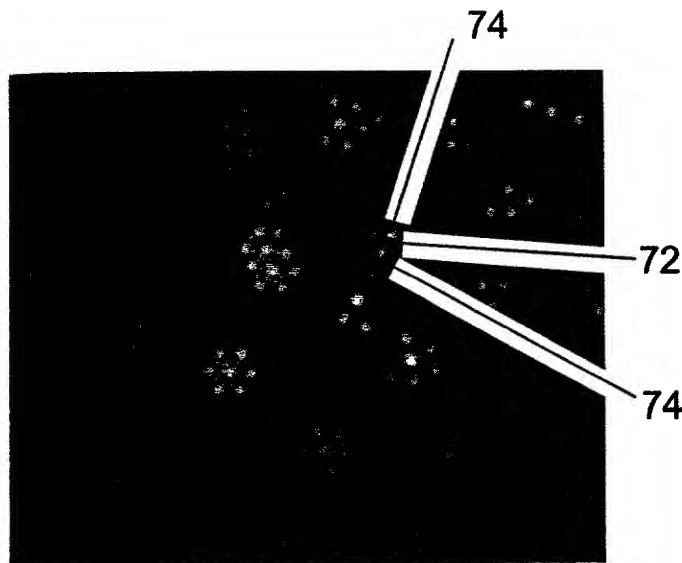
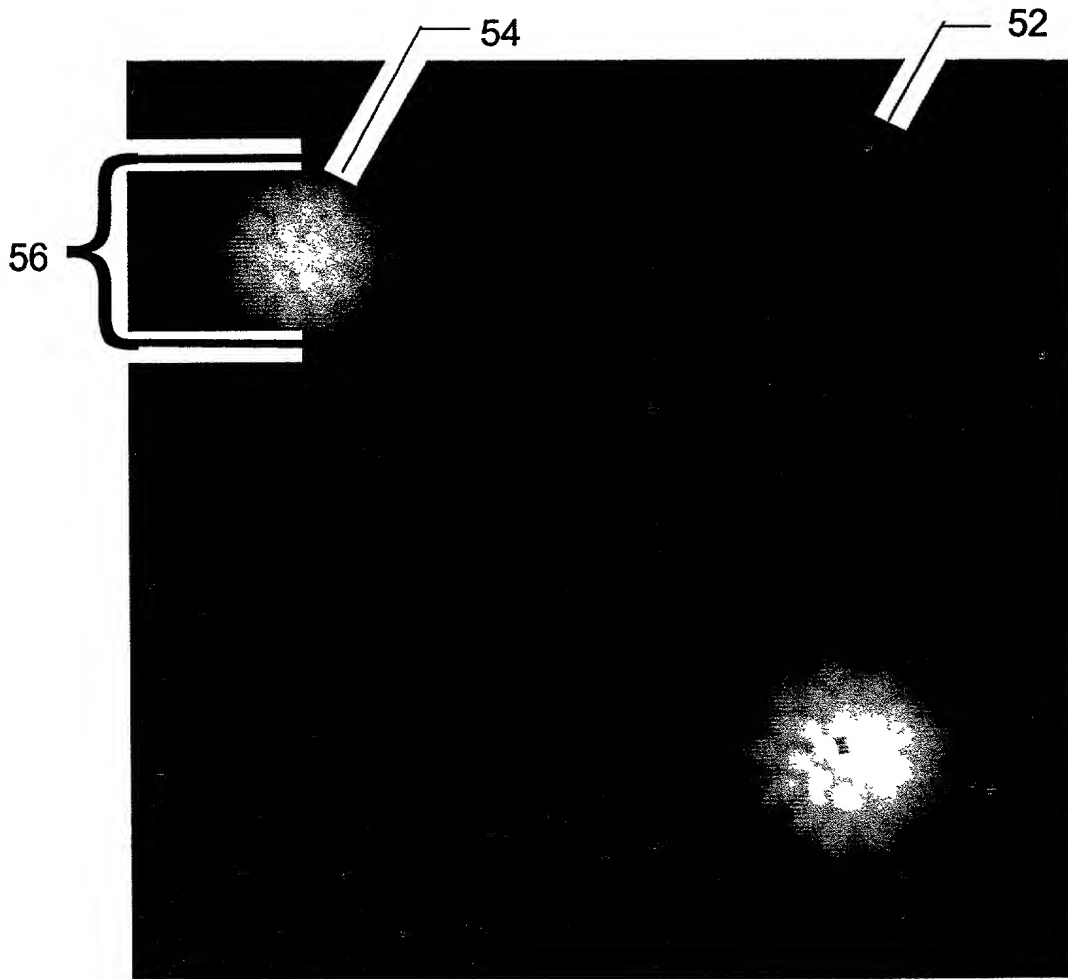


FIG. 7

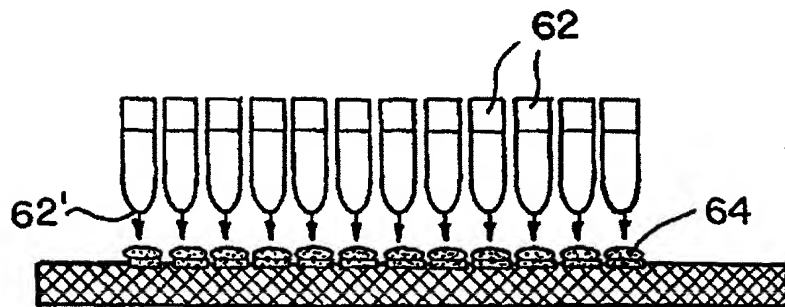
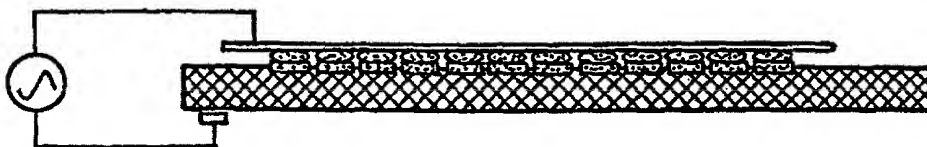
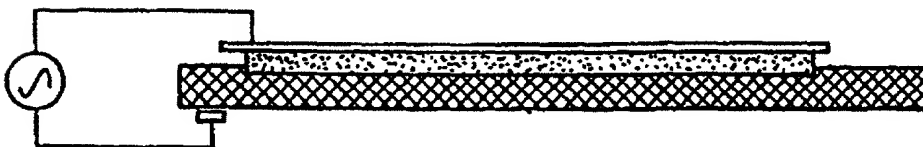
FIG. 6a**FIG. 6b****FIG. 6c**

FIG. 8

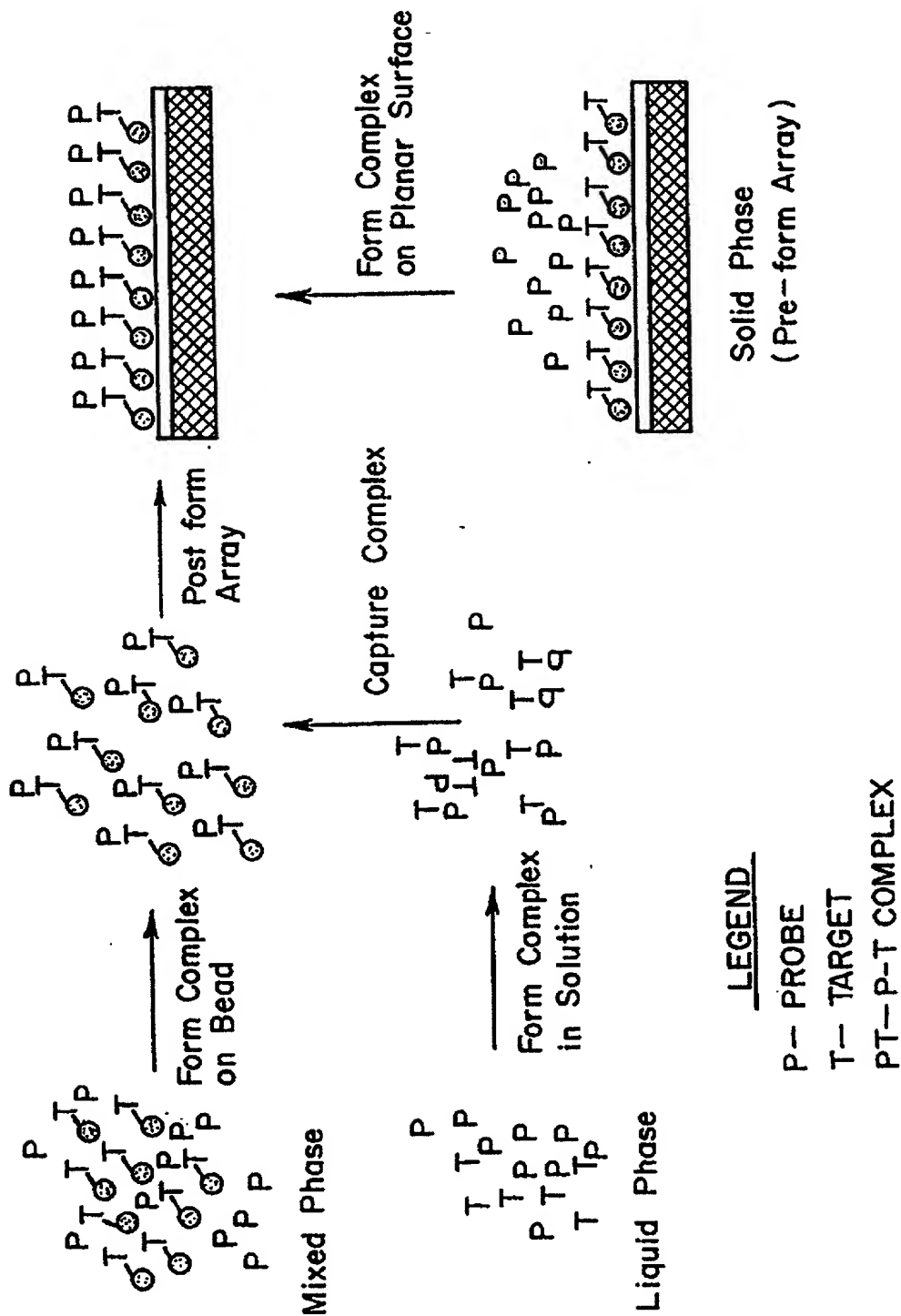


FIG. 9a

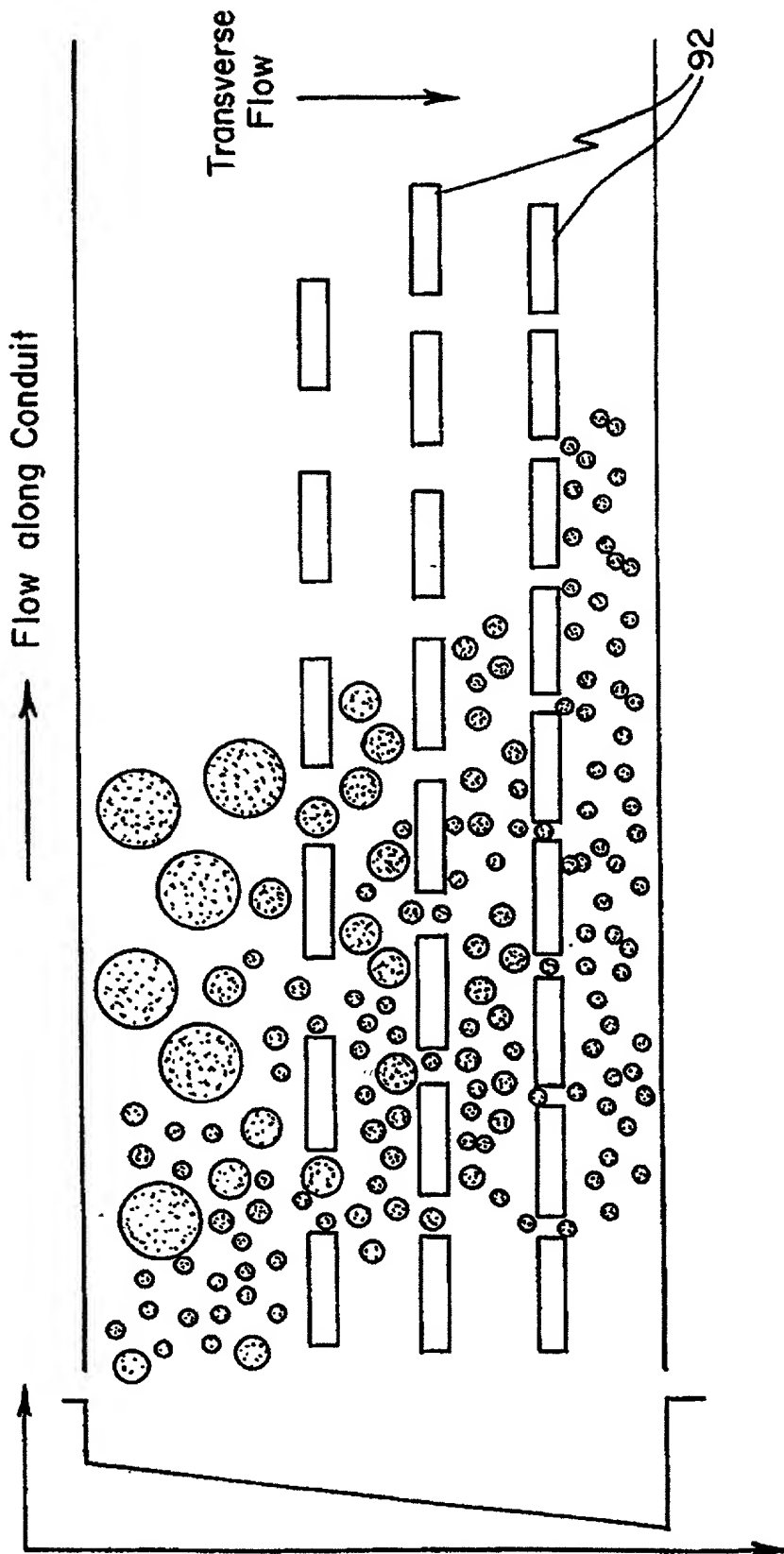


FIG. 9b

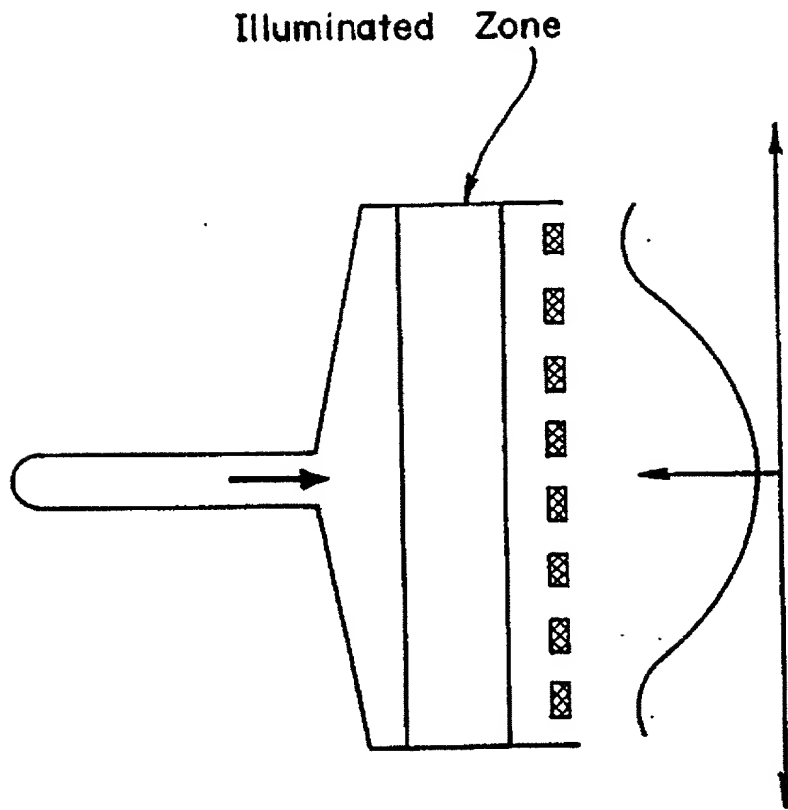


FIG. 9c



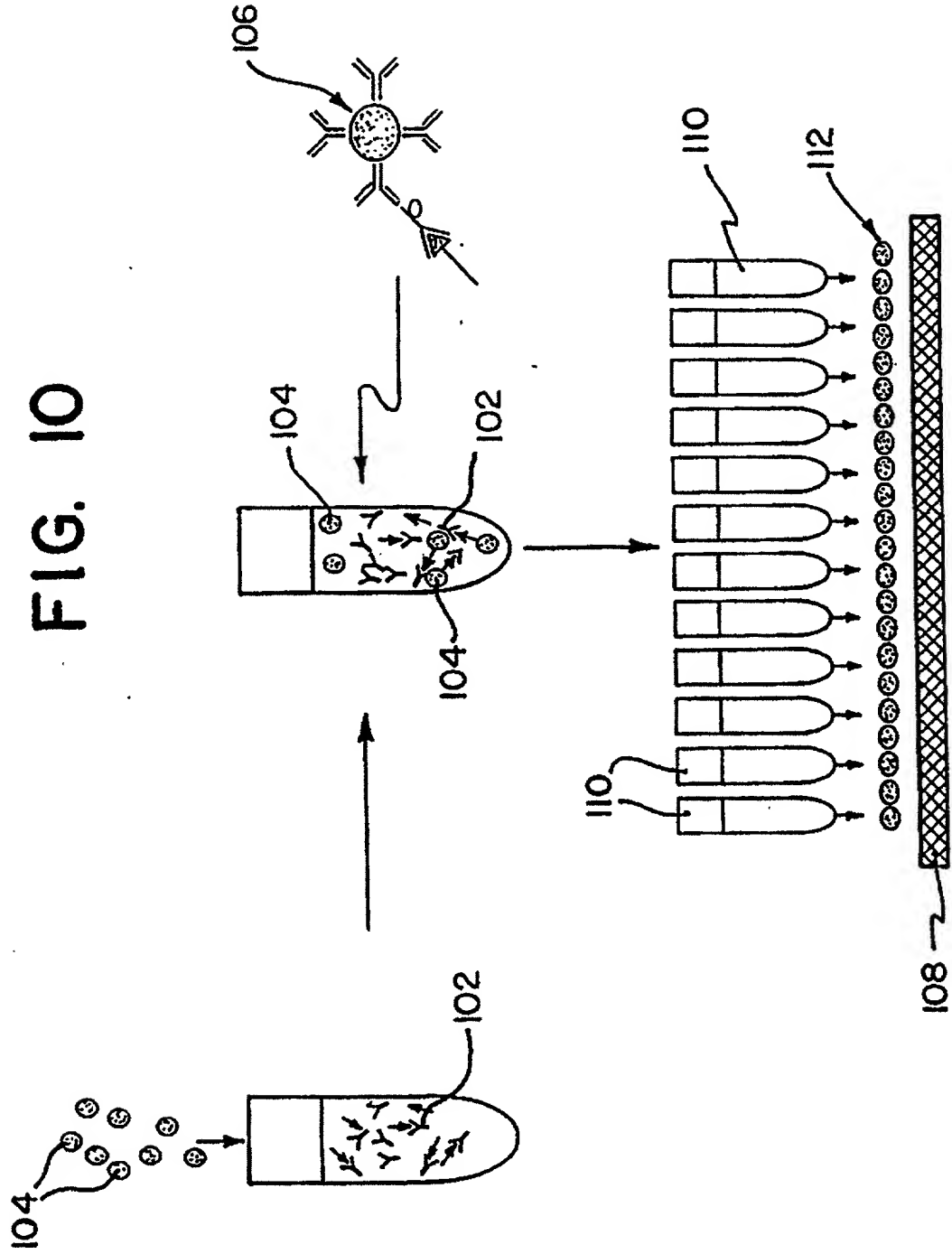


FIG. 11a

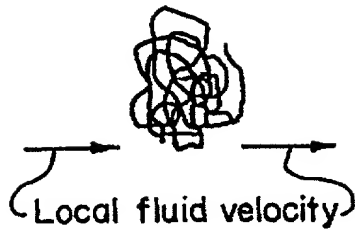


FIG. 11b



FIG. 11c

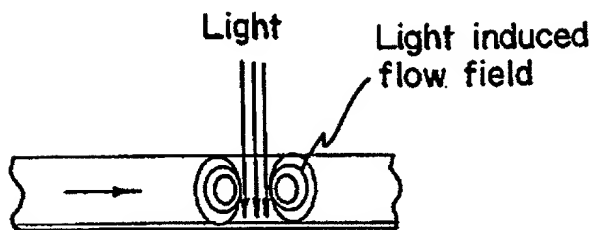


FIG. 11d

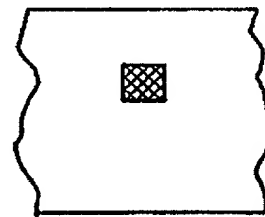
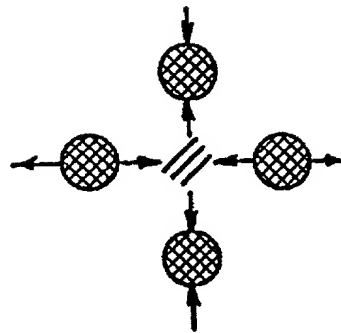
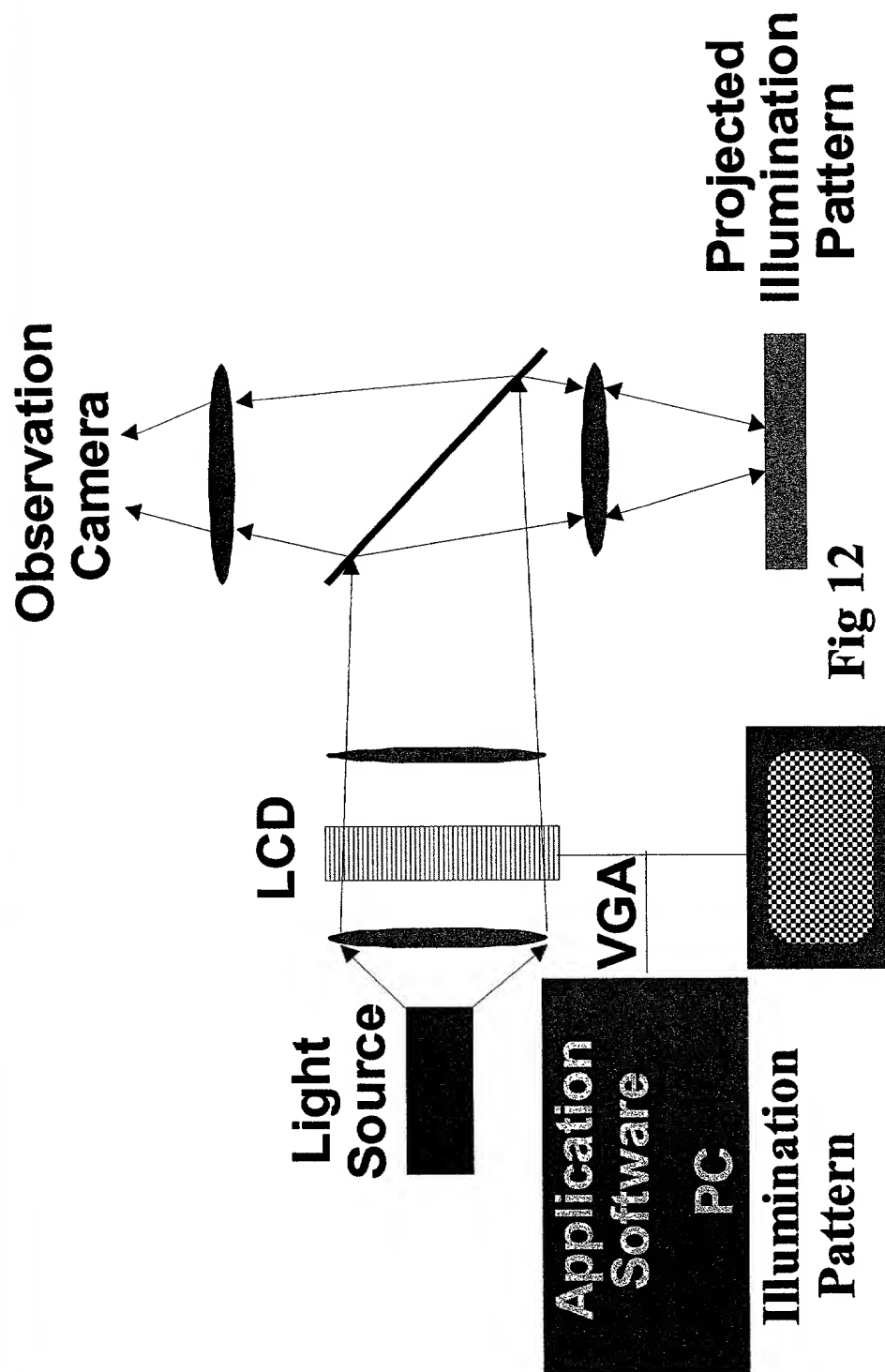


FIG. 11e



ILLUMINATION PATTERN GENERATOR



LCD-PARSE OPTICAL DESIGN

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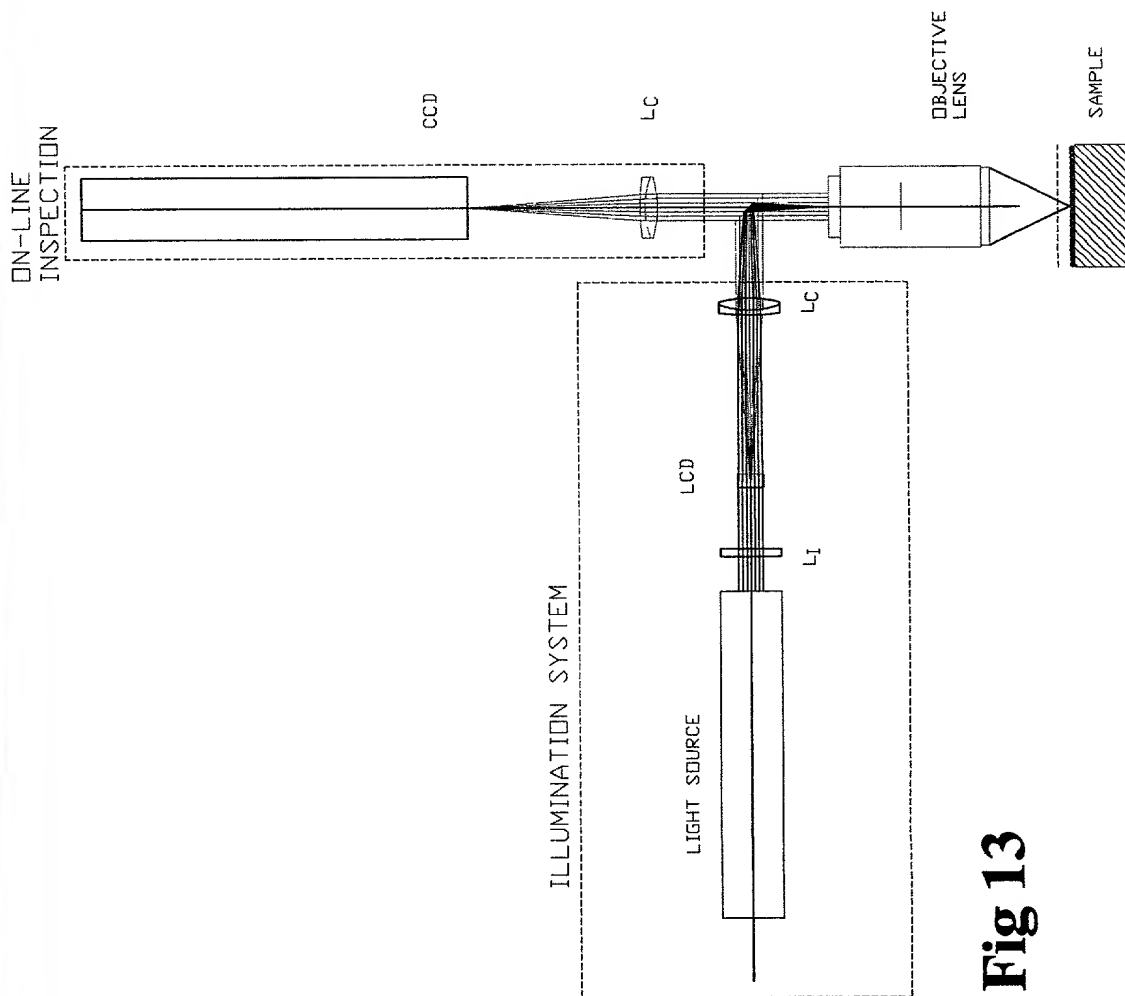


Fig 13

ARRAY SHAPE ADJUSTMENTS

CIRCLE

HORIZONTAL. LINE

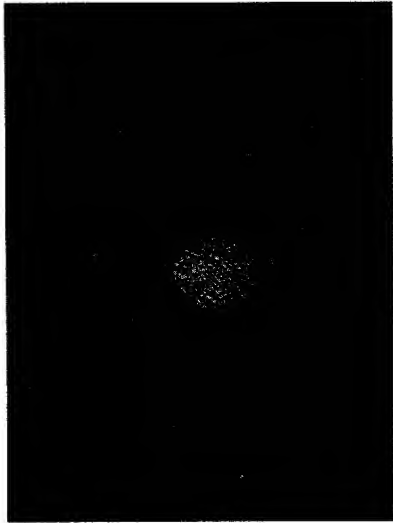


Figure 14a



Figure 14c

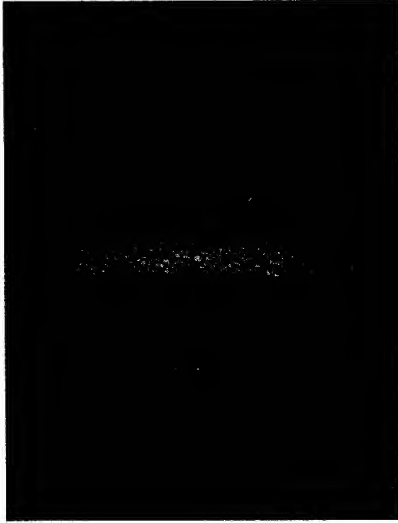


Figure 14b

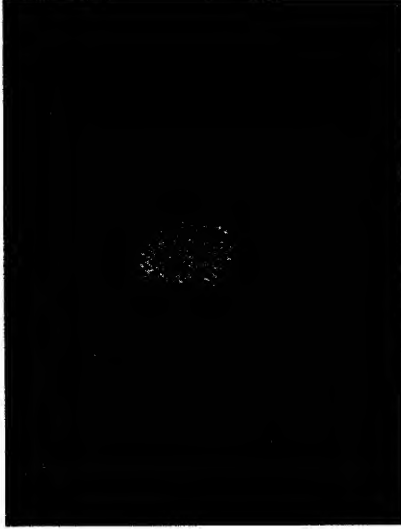


Figure 14d

VERTICAL LINE

SQUARE

COLLECTION AND ARRAY ASSEMBLY

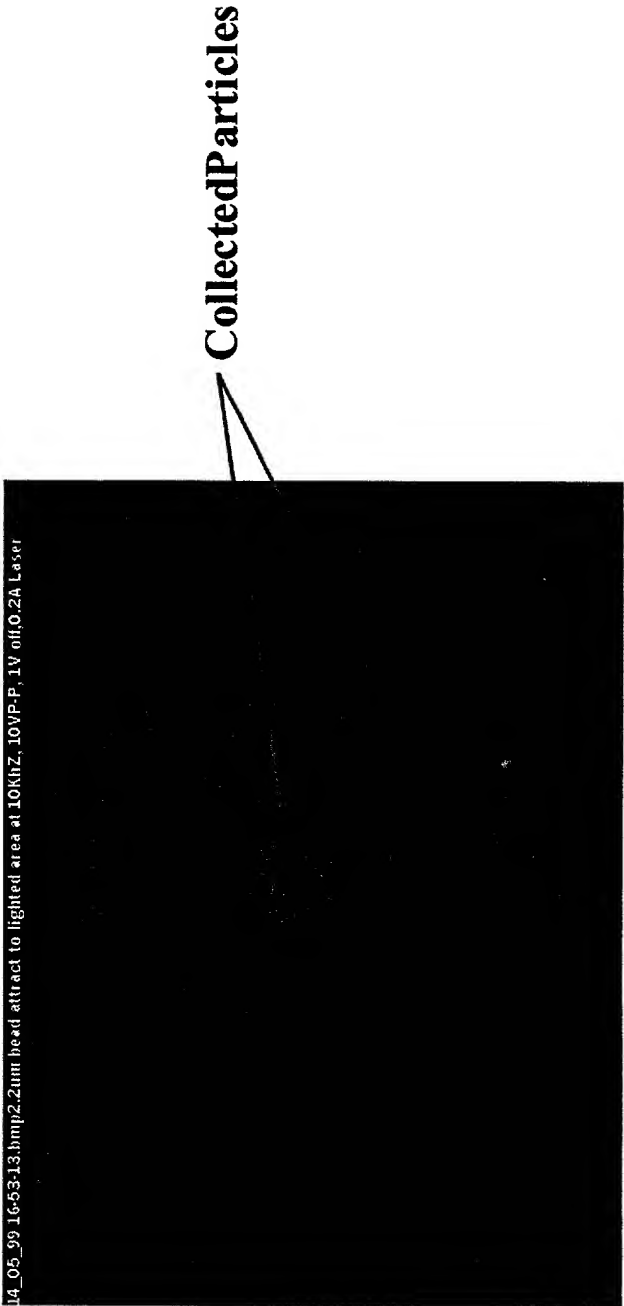


Figure 15a

EXPULSION AND CONFINEMENT

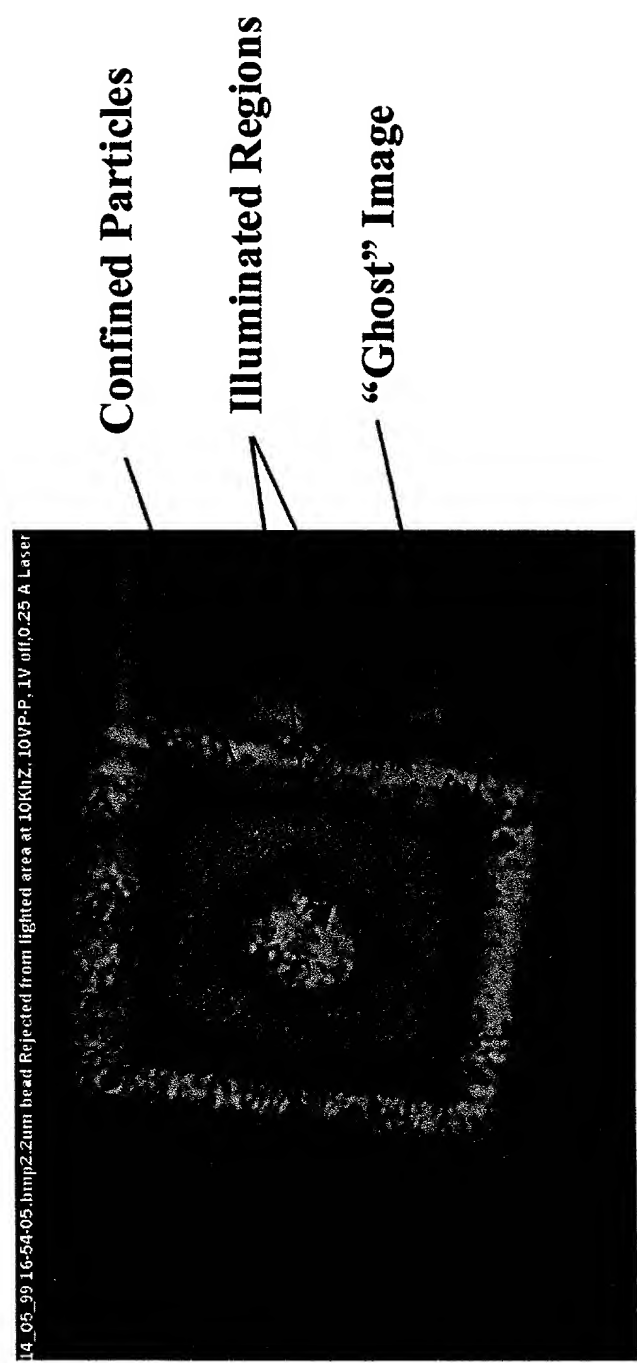


Figure 15b

DRAG AND DROP

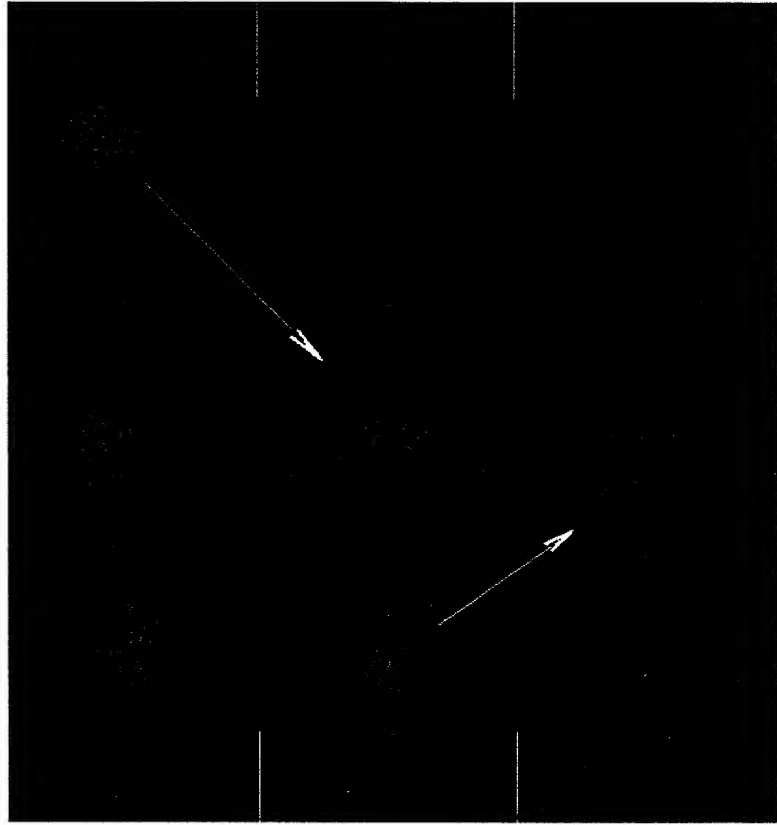


Figure 16

Programmable Array Reconfiguration and Segmentation

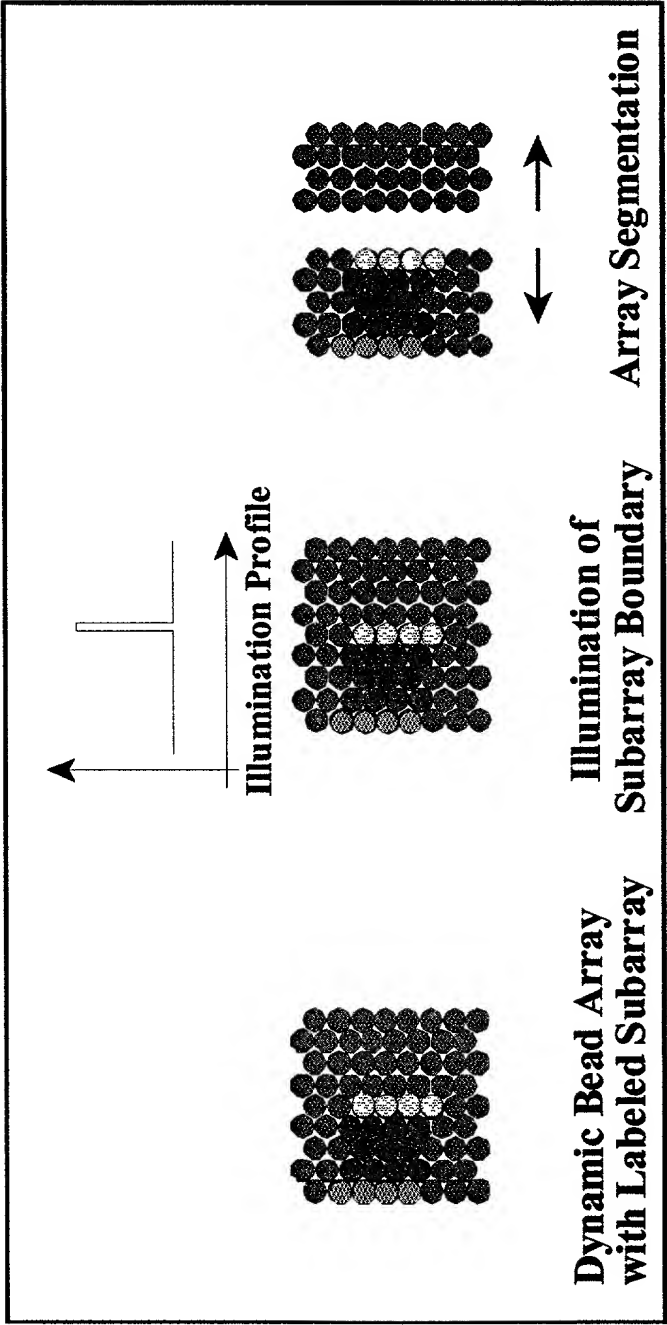


Figure 17

LCD PARSE

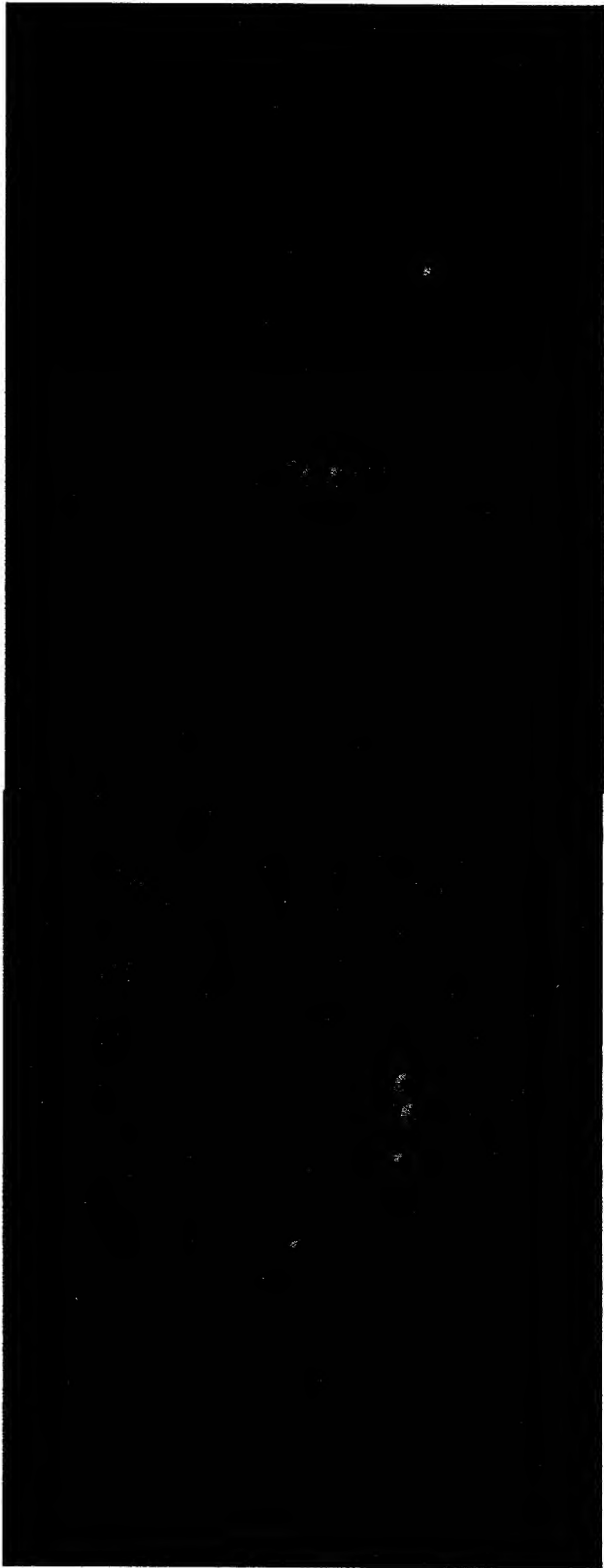


Figure 18b

Figure 18a

LCD PARSE

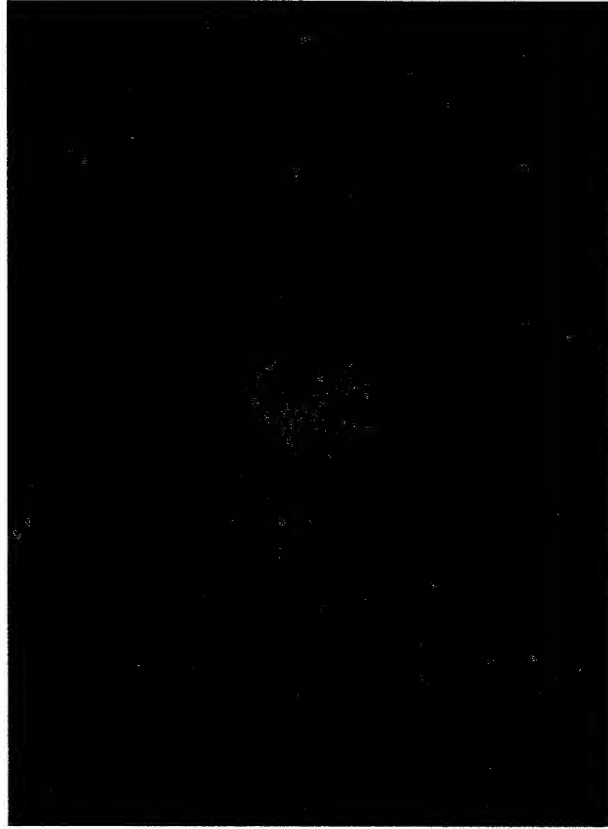


Figure 19

FRACTIONATION

Differential Frequency Dependence of Particle Expulsion
(NOTE: ω_c denotes a characteristic frequency)

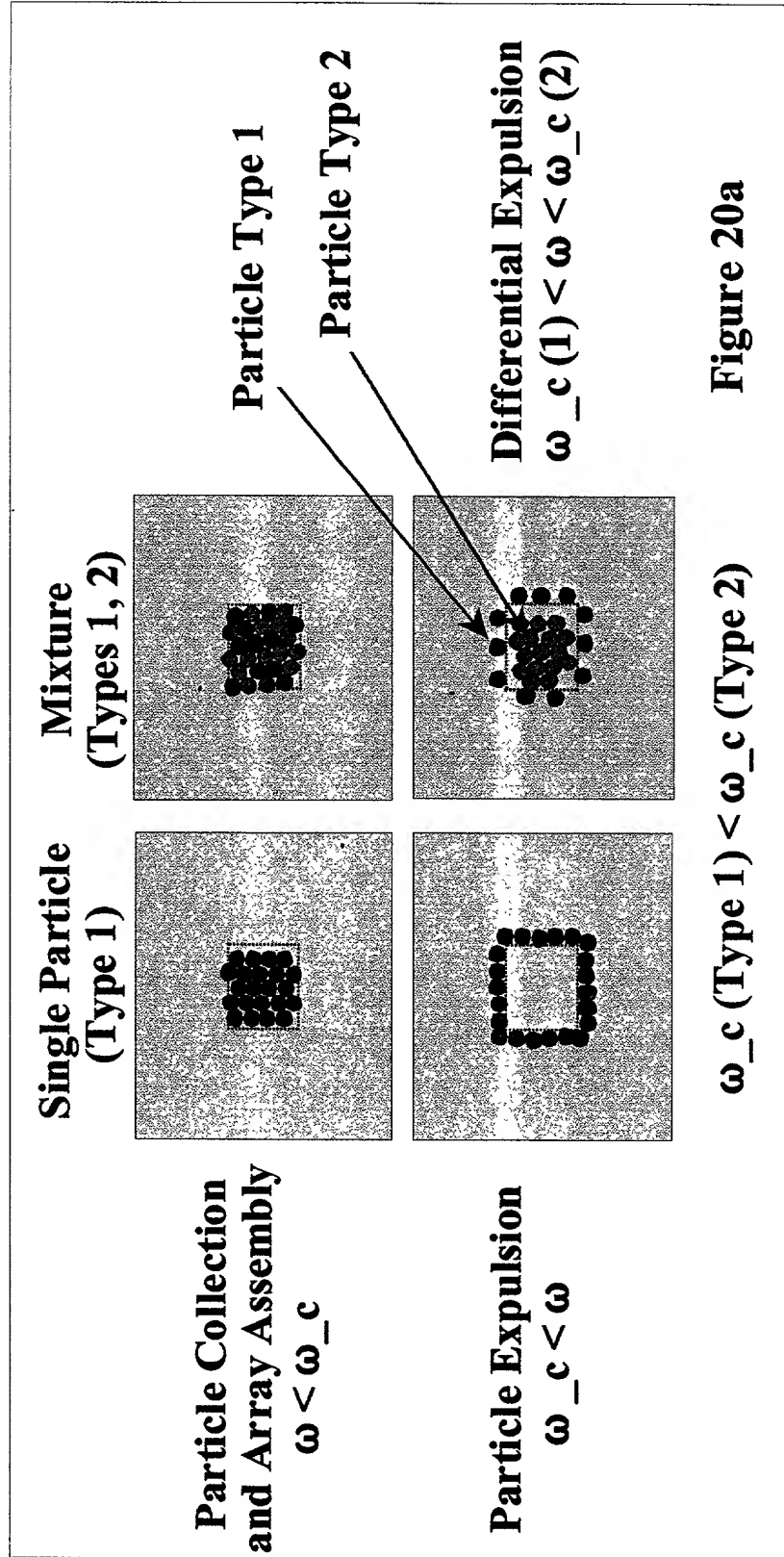


Figure 20a

FRACTIONATION

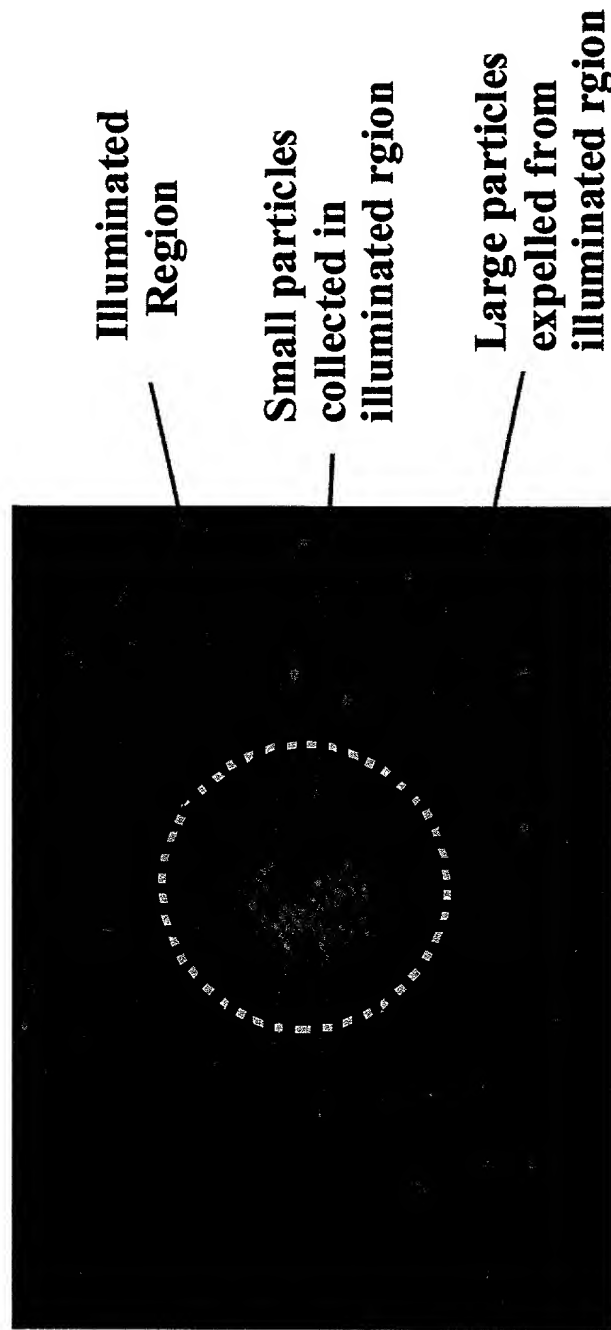
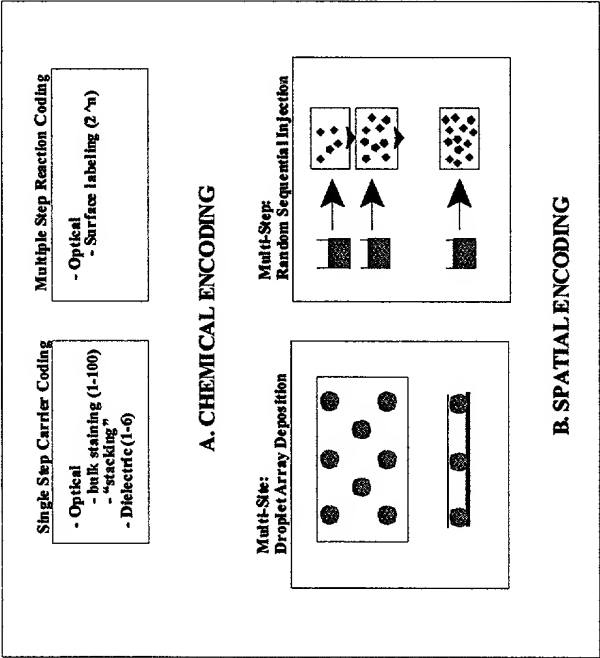


Figure 20b

Figure 22a



1 - Pre-Processing

2 - Post-Processing

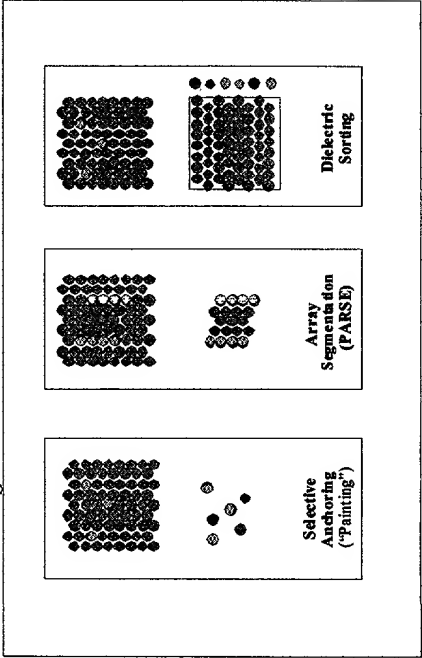


Figure 22b

RANDOM SEQUENTIAL INJECTION

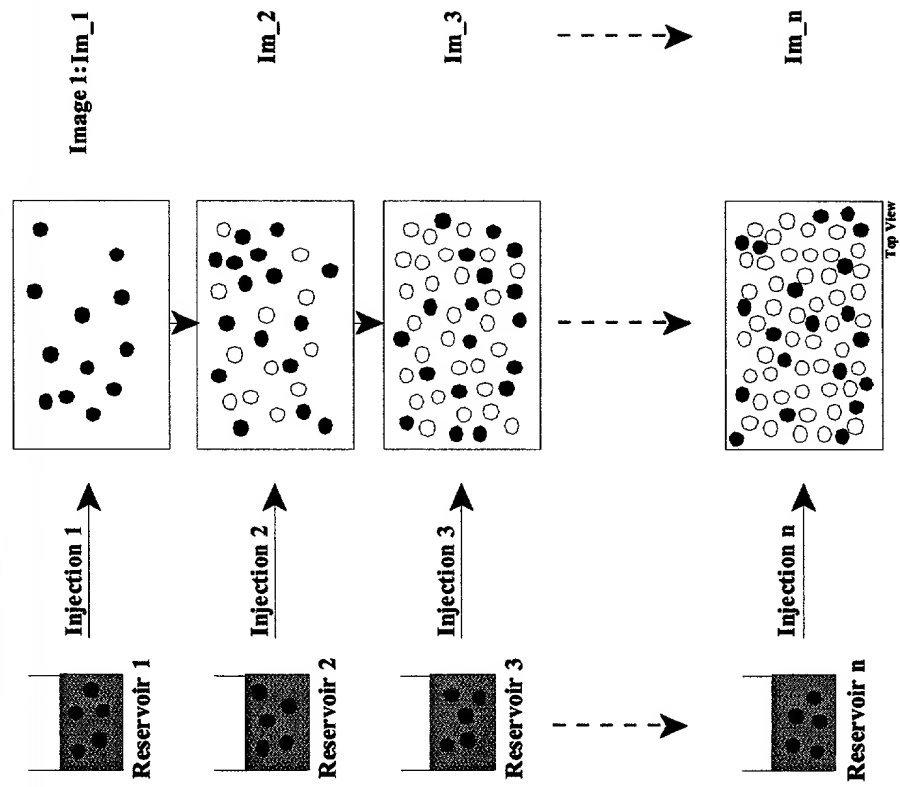


Figure 23

SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT

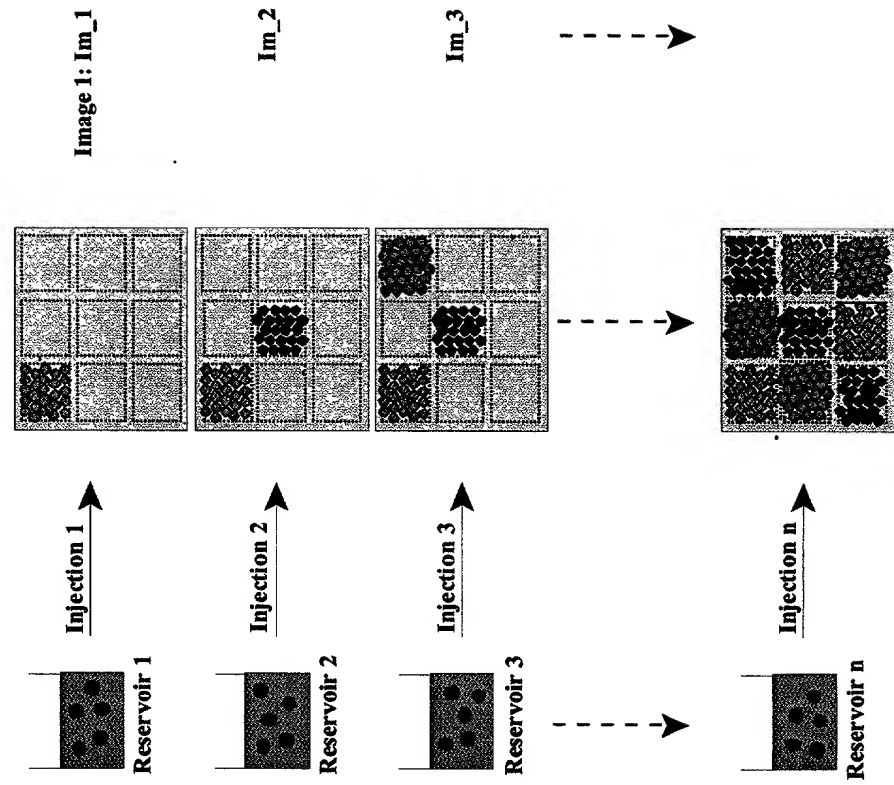


Figure 24

MACRO-TO-MICRO TRANSITION

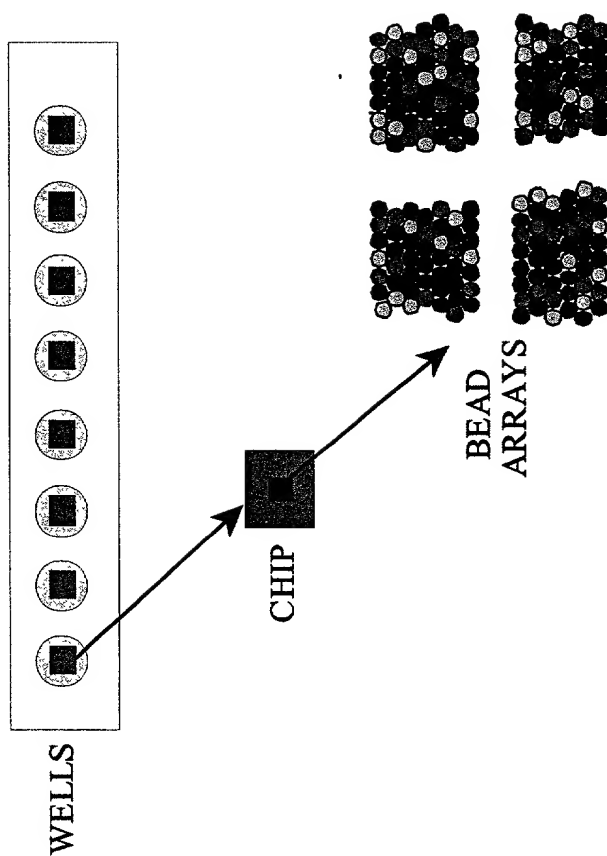


Figure 25a

ARRAY ENCODING

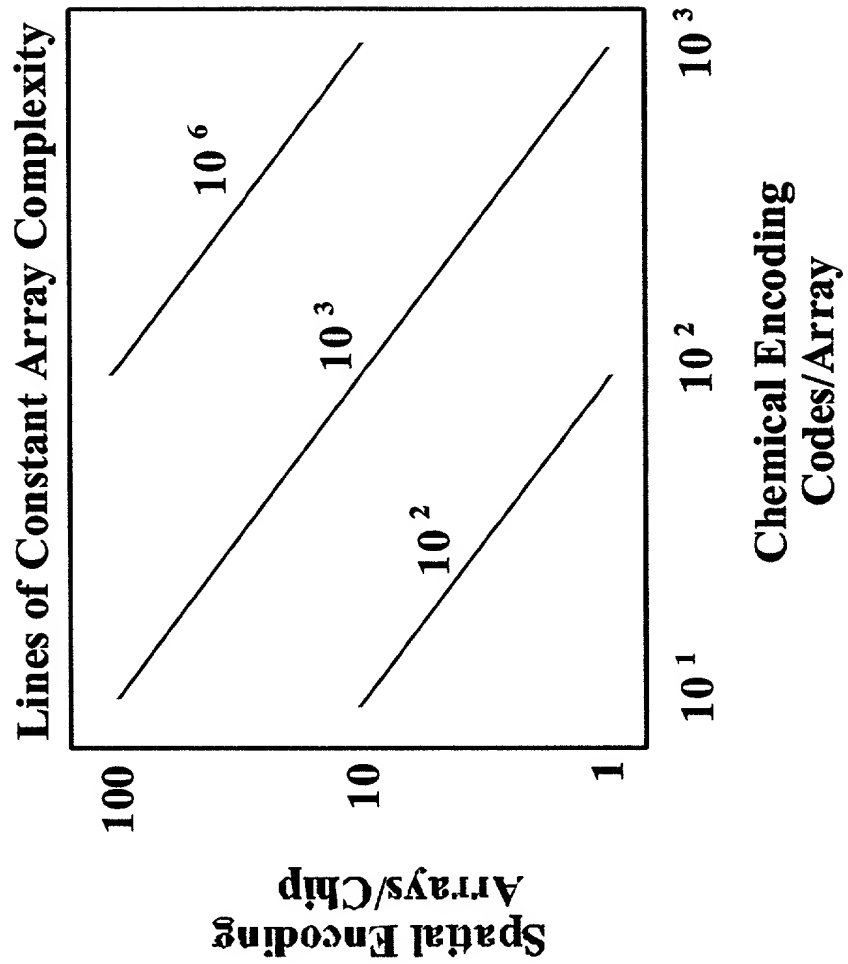


Figure 25b

ARRAY ENCODING

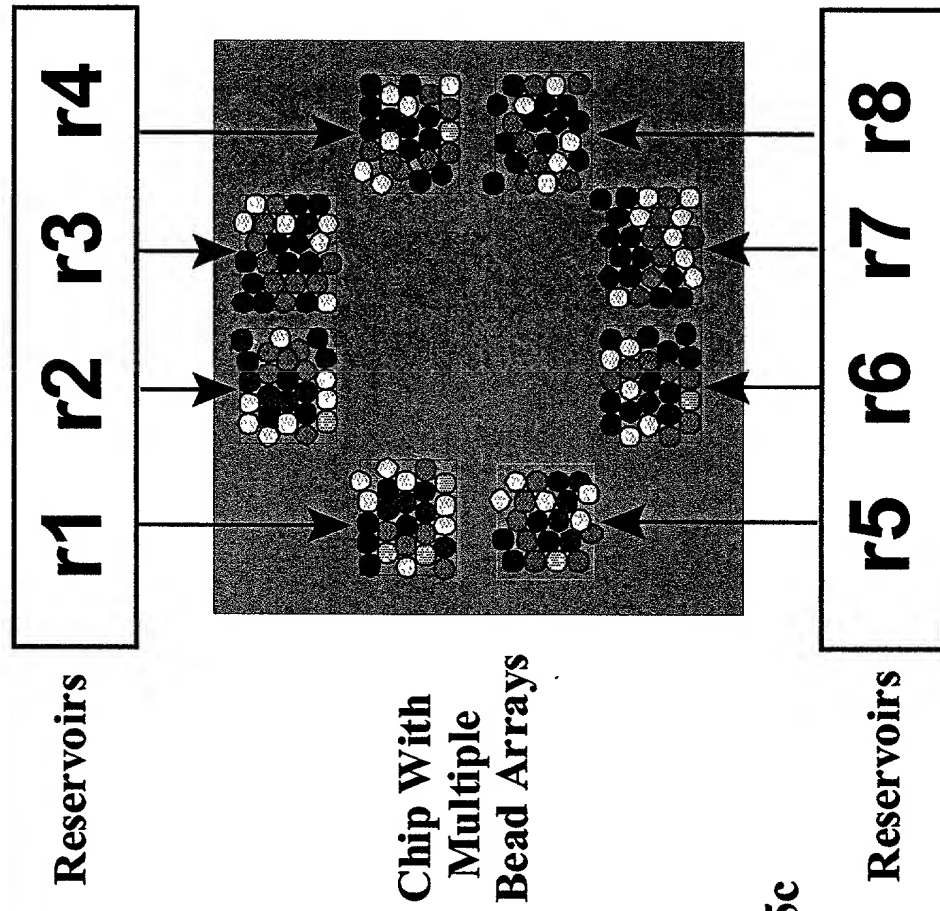


Figure 25c

SEQUENTIAL ASSEMBLY: "BANDING"

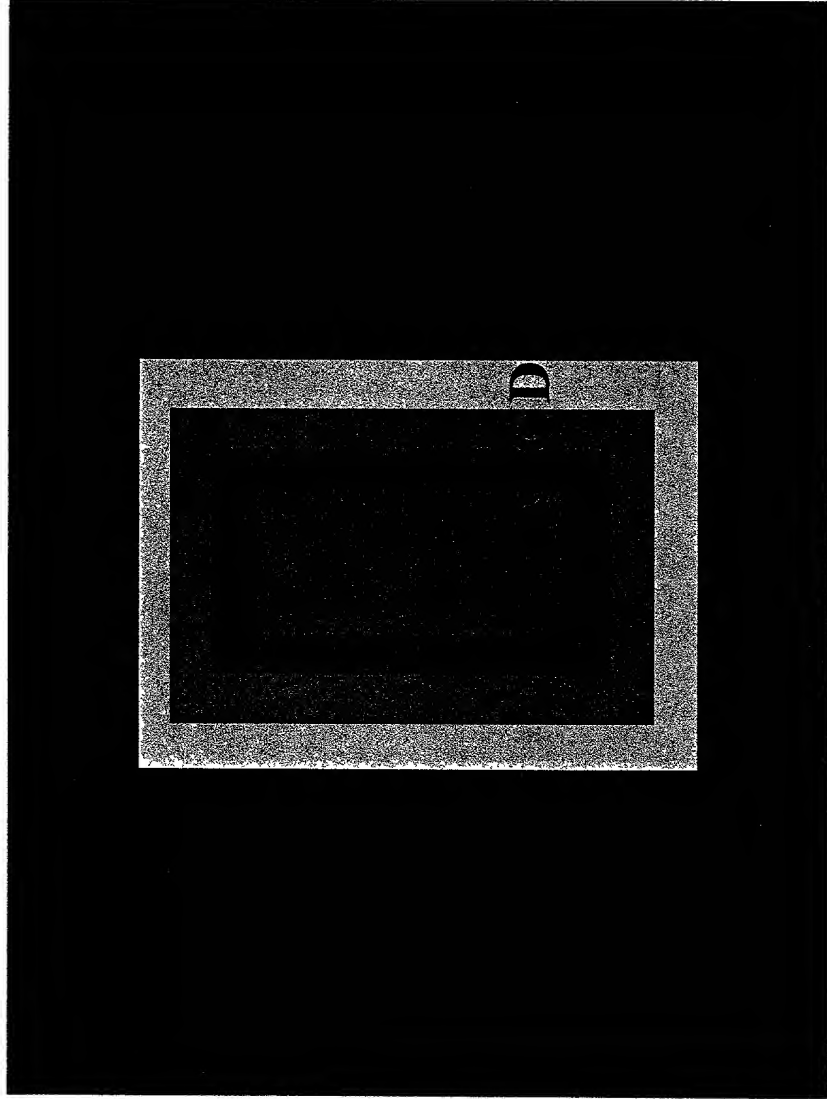
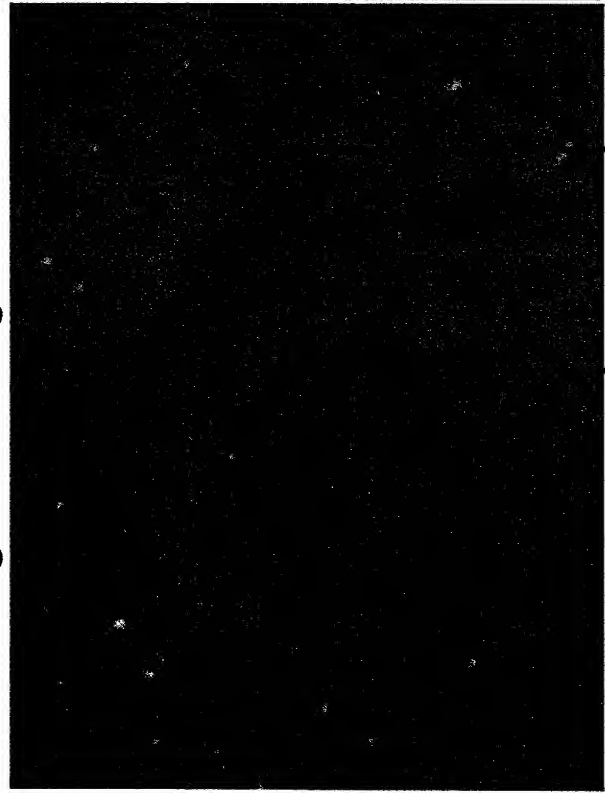


Figure 26a

SEQUENTIAL ASSEMBLY: "BANDING"

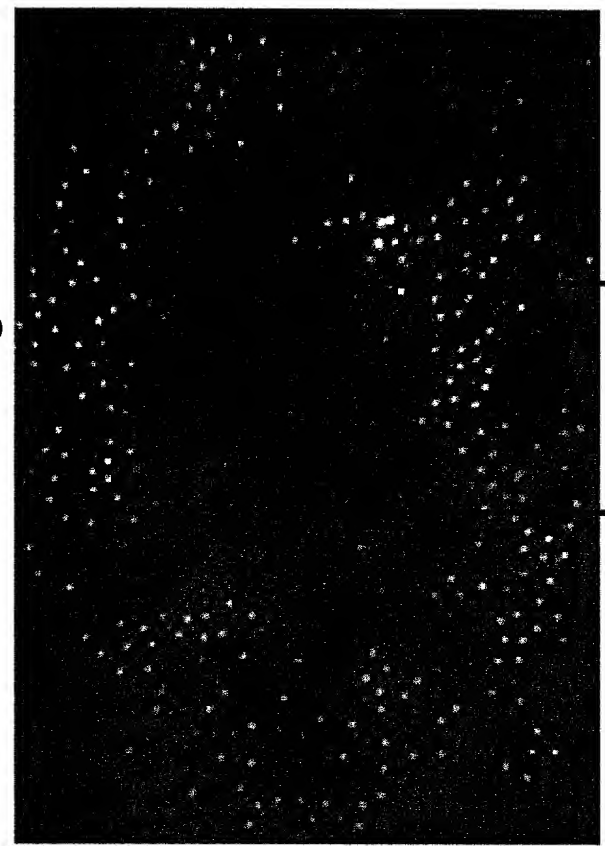
Mixture of Two Particle Types

Brightfield Image



2.8 μm 5.5 μm

Darkfield Image



2.8 μm 5.5 μm

Figure 26b

LCD PARSE

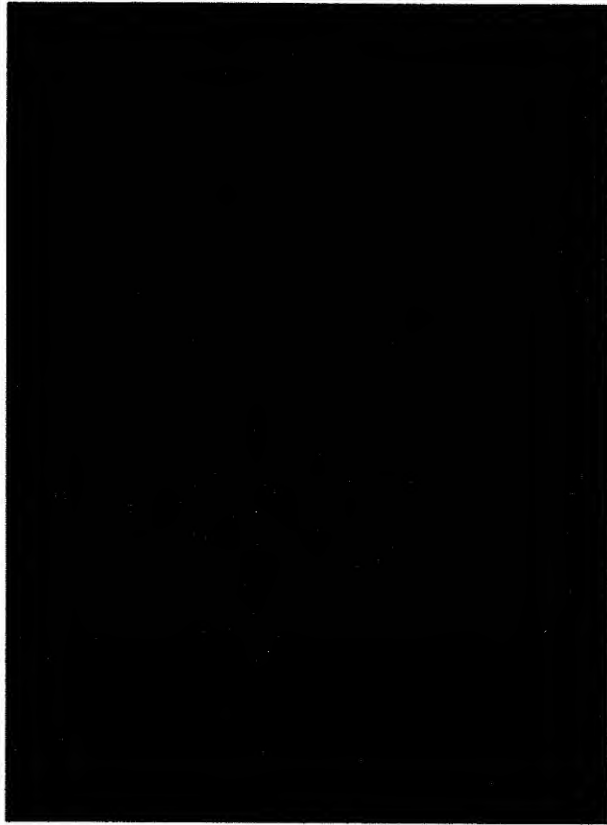


Figure 27

ARRAY OF RANDOM SUBARRAYS

UNIQUE TWO-DIMENSIONAL BAR CODE

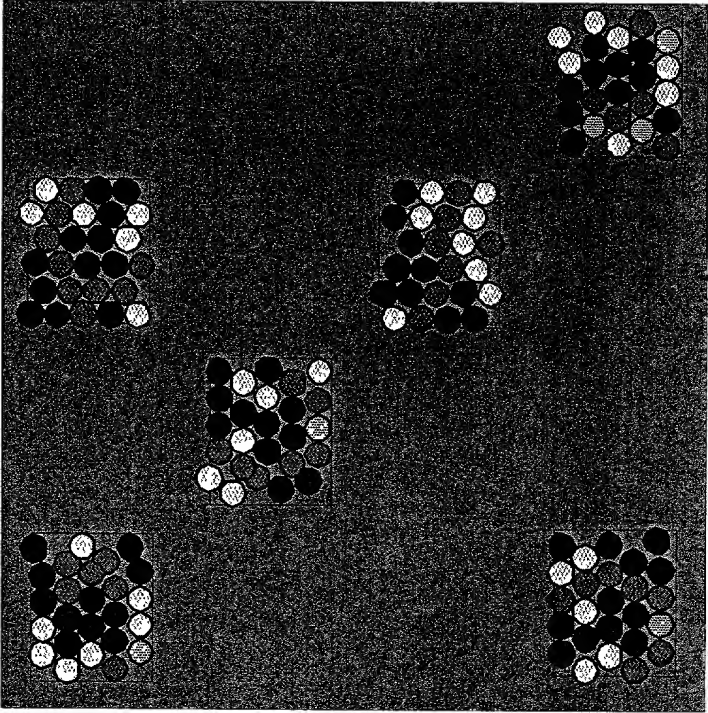


Figure 28

LIGHT-INDUCED FLUID FLOW

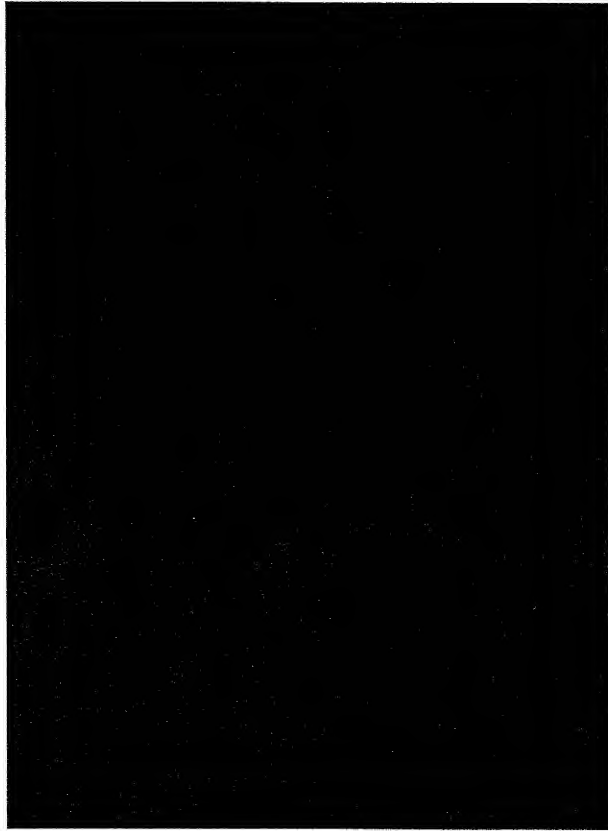


Figure 29